

FIG. 1

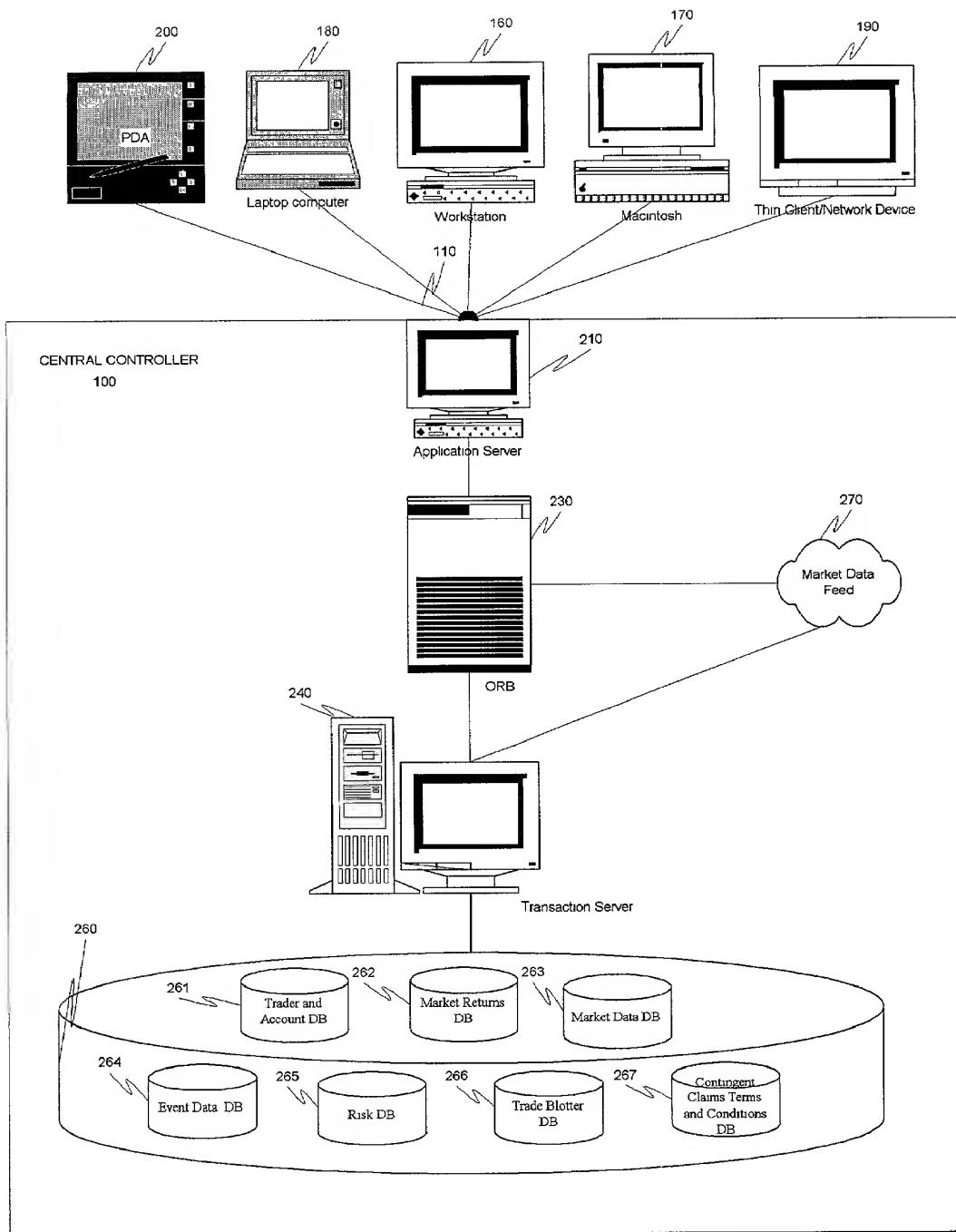


FIG. 2

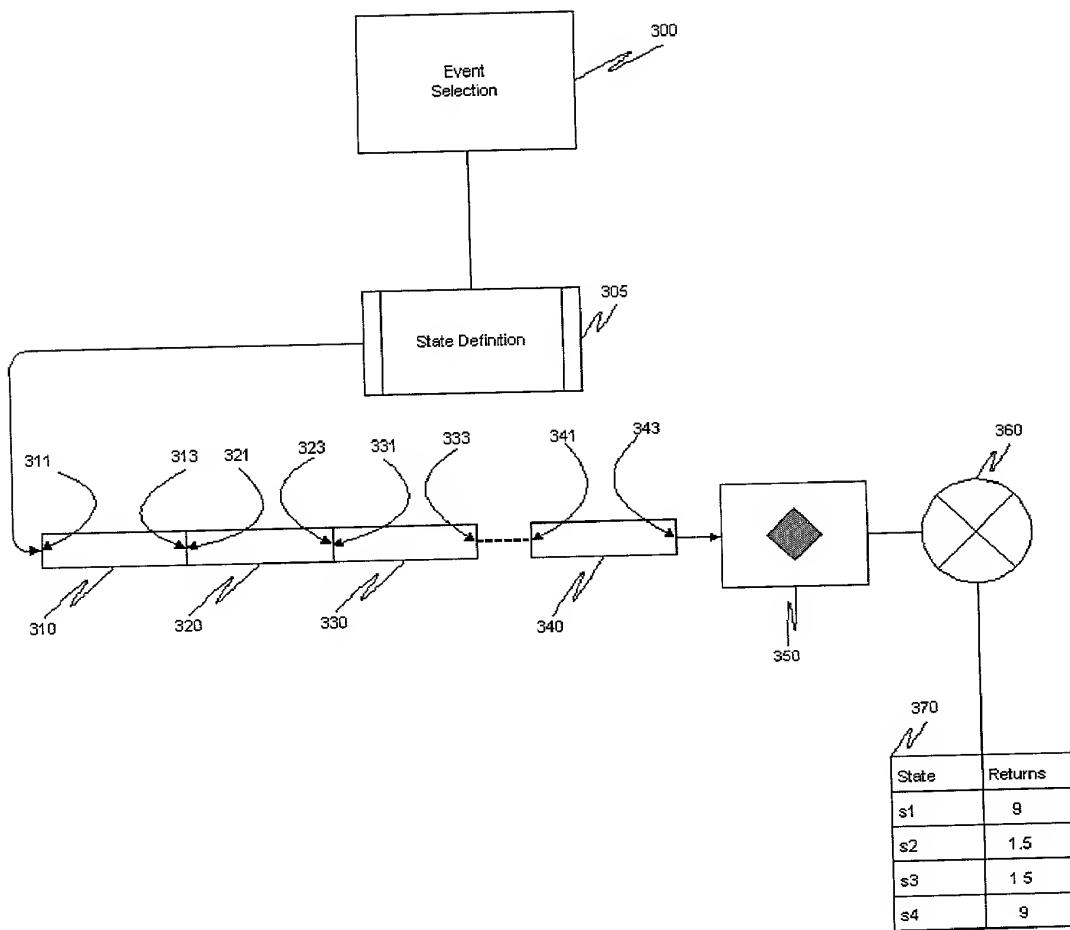


FIG. 3

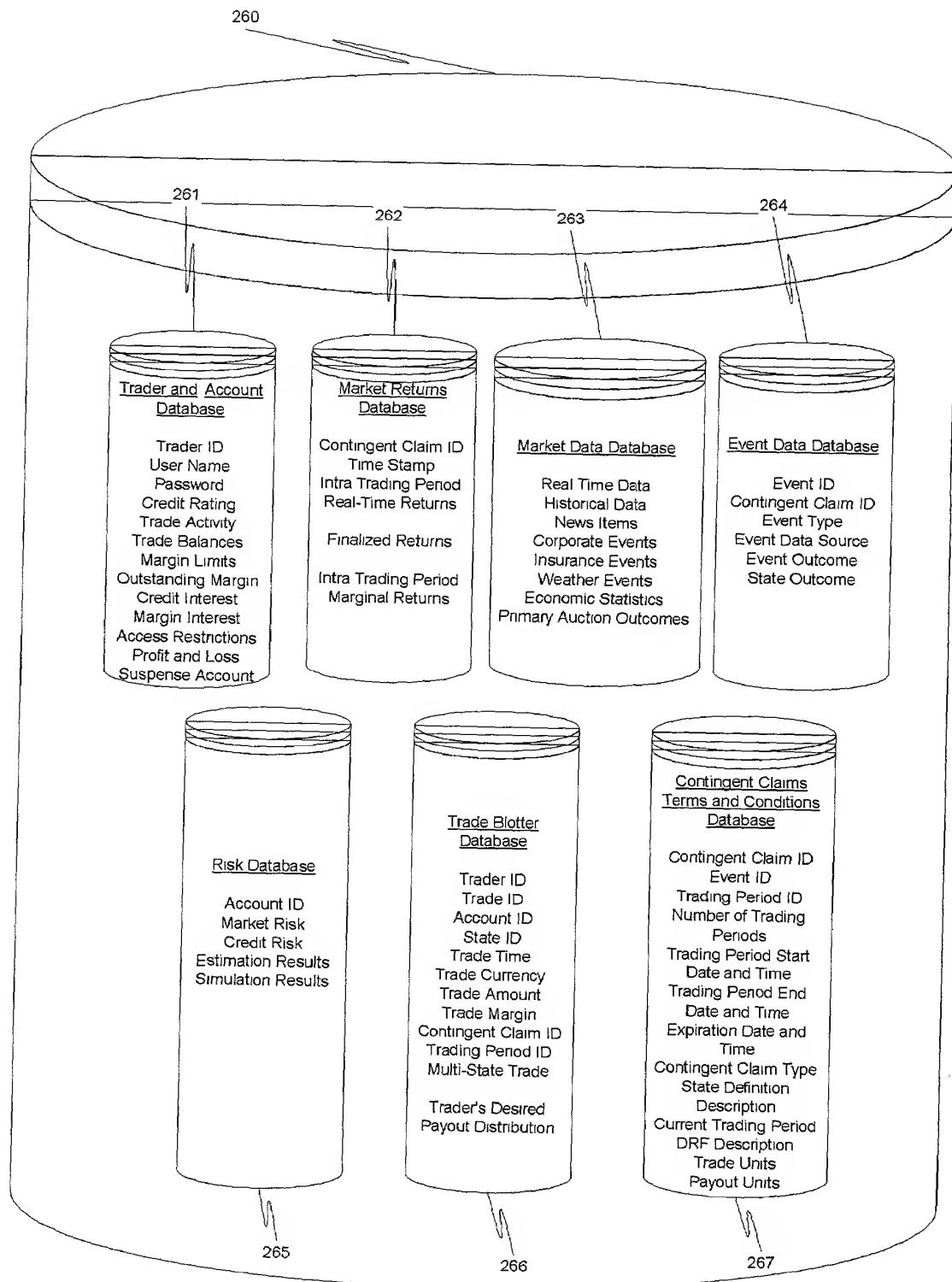


FIG. 4

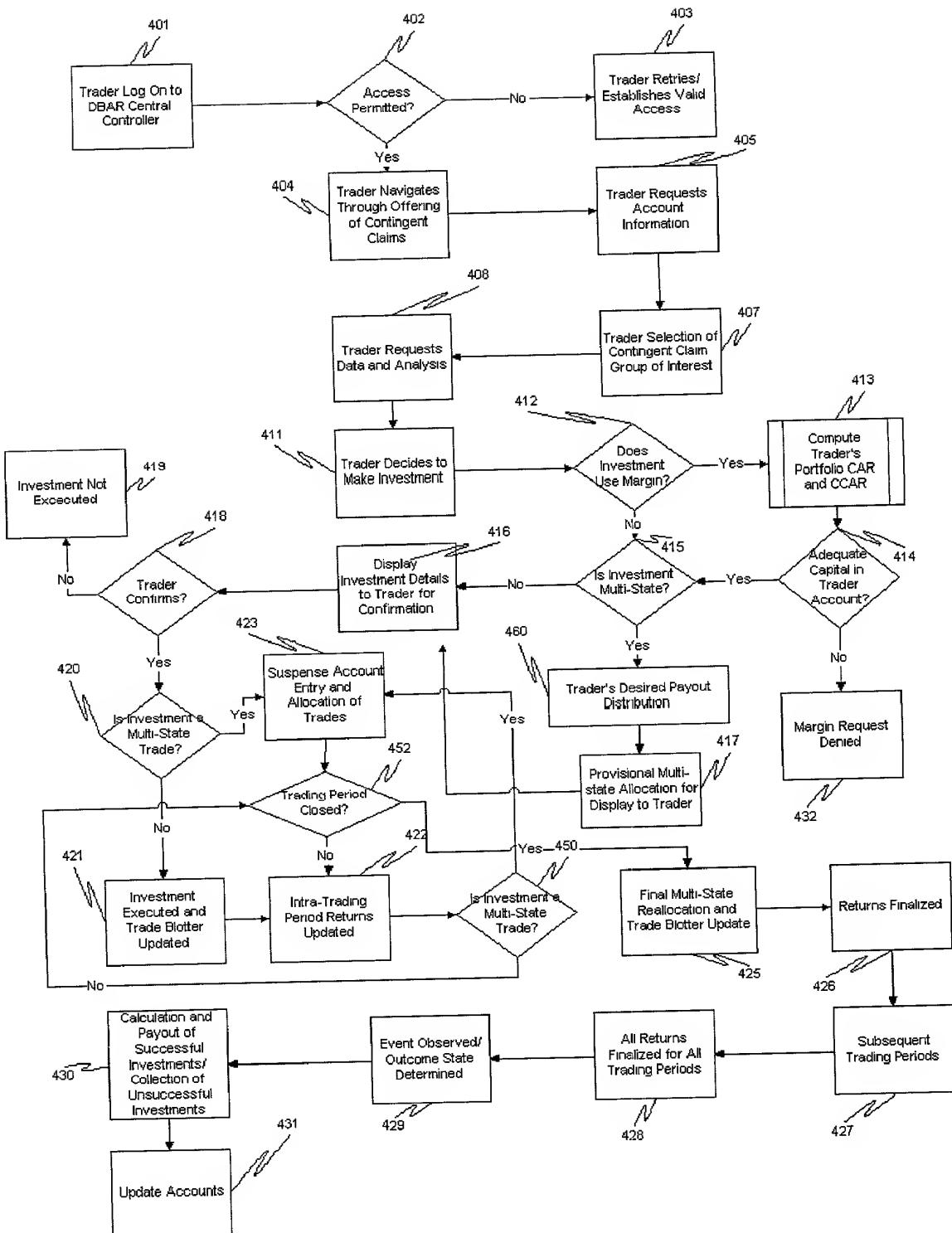


FIG. 5

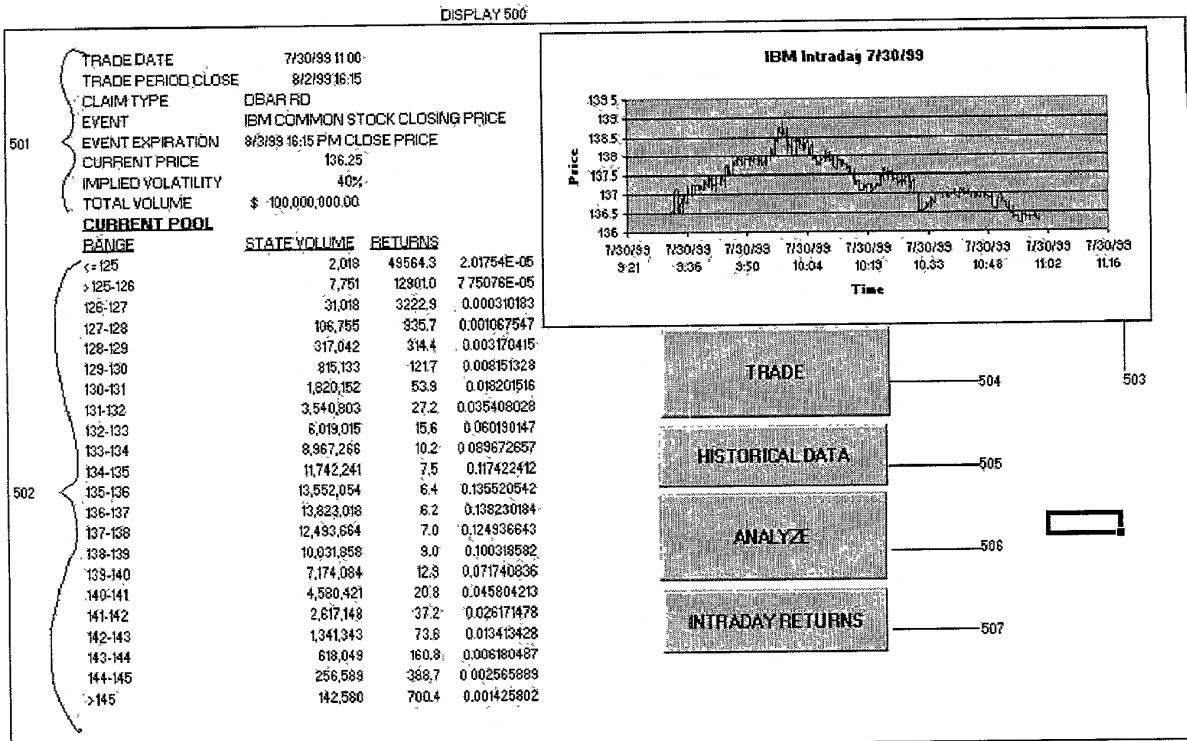


FIG. 6

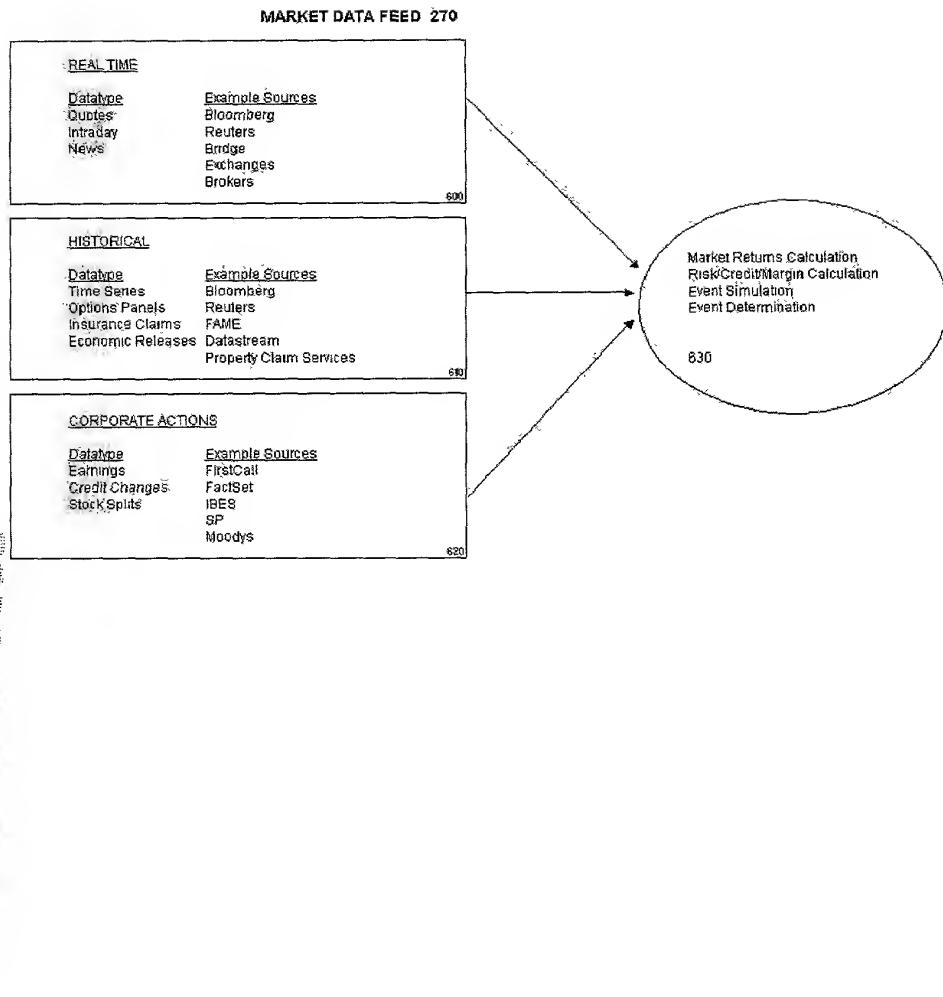


FIG. 7

Implied Liquidity Effects: Percentage Changes to Implied State Probabilities Between “Offer” and “Bid” as a Function of Proposed Investment Amount (as a percentage,  $p$ , of existing investment)

Copyright © 2005, Blackwell Publishing Ltd. All rights reserved.

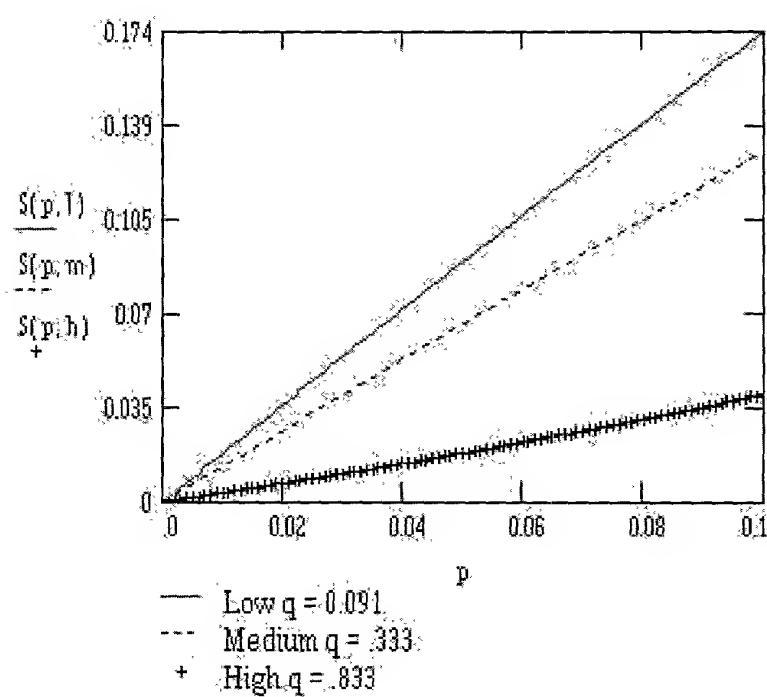


FIG. 8

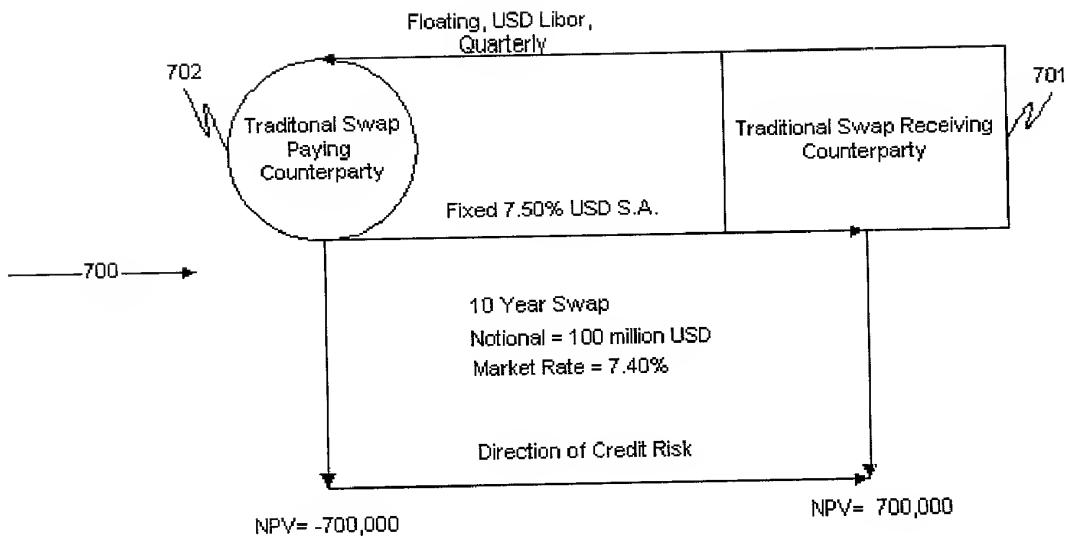


FIG. 9a: Traditional Swap Counterparties

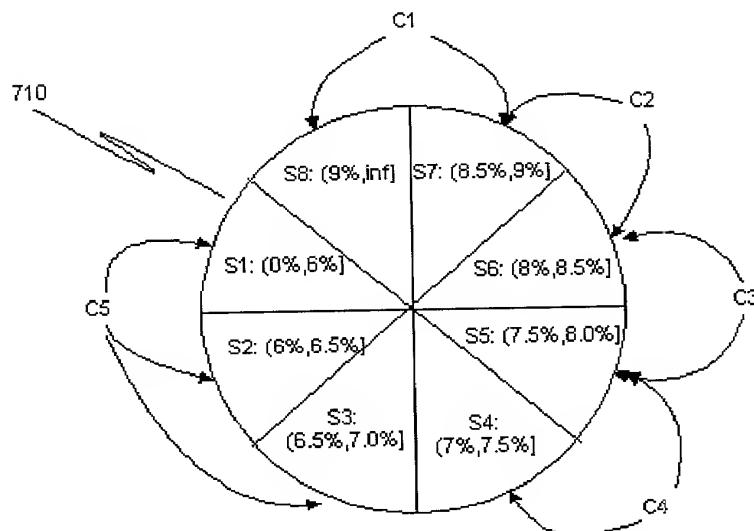


FIG. 9b: Illustrative Trader Relationships In DBAR Contingent Claims

720

States for Swap Rate

	S1	S2	S3	S4	S5	S6	S7	S8
C1,AAA							50,000	100,000
C2, AA					40,000	25,000		
C3, AA				100,000	60,000			
C4, A+				150,000	100,000			
C5, A	100,000	50,000	80,000					

Counterparty and Credit Rating

FIG 9c: Margin Loans by Trader, Credit Rating, and Defined State

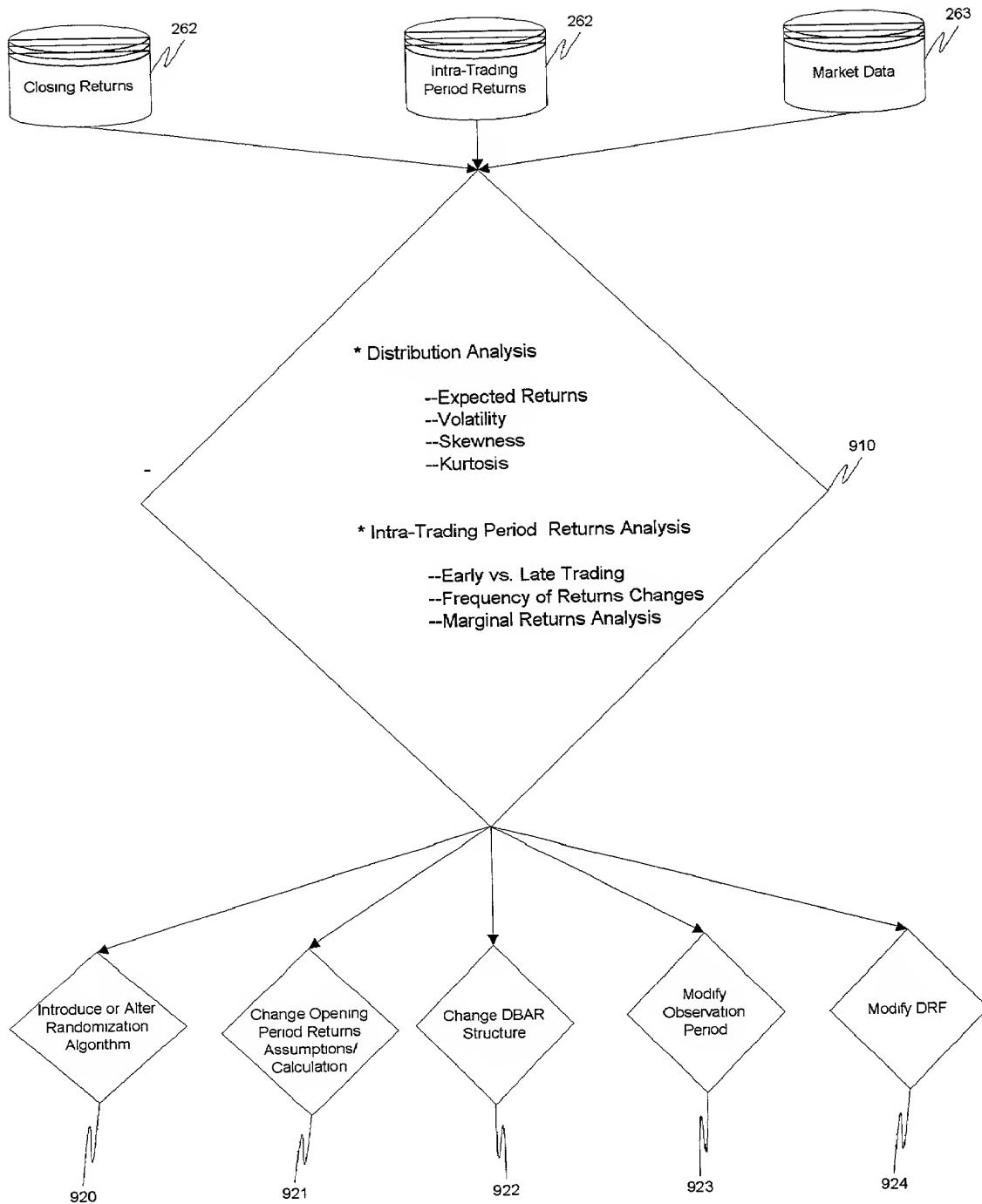


FIG. 10

FIG. 11

```

struct {
    int numStates; // Number of states in contract
    double totalInvested; // Total amount invested in contract
    double poTrade[]; // Profile trade investments per state
    double poReturn[]; // Profile payout per state
    double stateTotal[]; // Aggregated investment per state
    int numOrders; // Number of submitted orders in contract
    ORDER order[]; // List of composite orders
} contract;

```

1101

```

struct {
    double orderAmount; // Amount of trade to transact. Represents
                         // amount to be invested for buys and amount
                         // of payout to be sold for sells
    double invest[contract.numStates]; // Calculated amount to invest per
                                      // state
    int buySell; // Indicates whether order is a buy (-1) or a
                  // "sell" (+1)
    int marketLimit; // Indicates whether order is market order (=1)
                      // or a limit order (=0)
    double limitPrice; // Price below (above) which buy (sale) should
                        // be executed
    double price; // the current equilibrium price for the digital
                   // option spread or strip specified in the order
    int ratio[contract.numStates]; // the relative payout ratio requested should
                                    // each constituent state of order occur
    double filled; // the amount of the order filled in equilibrium
    double fee; // the total transaction fee charged for the
                  // order
    double payout; // the payout of the order net of fees after the
                    // event has occurred and the realized state is
                    // known
    double profilePayout[contract.numStates]; // for a profile type order, the amount of
                                              // desired payout should state i occur
} order;

```

1102

FIG. 12

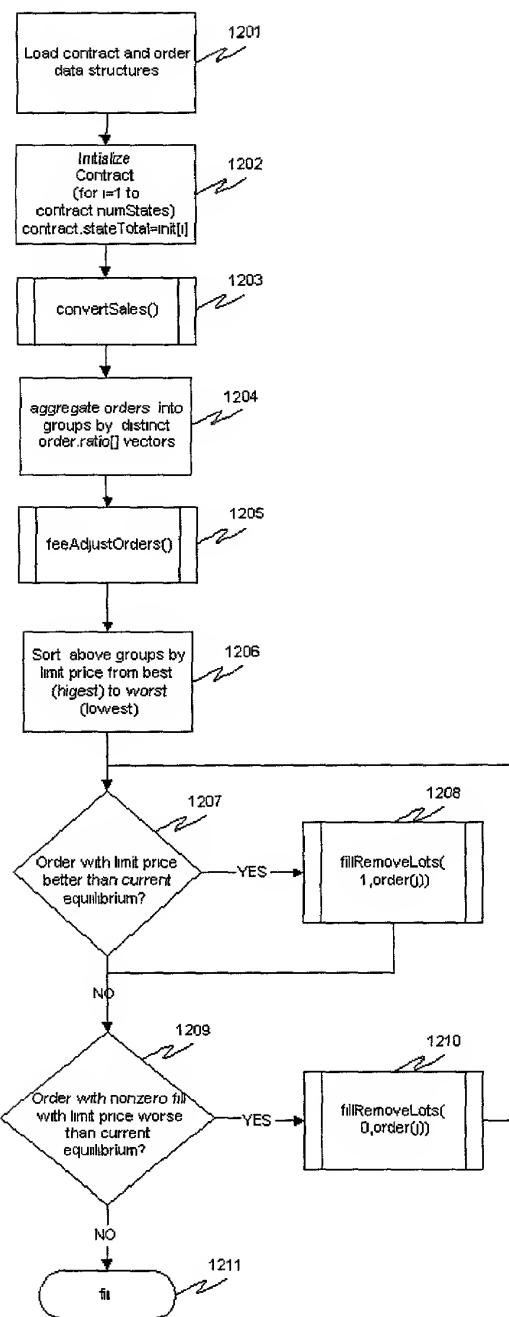


FIG. 13

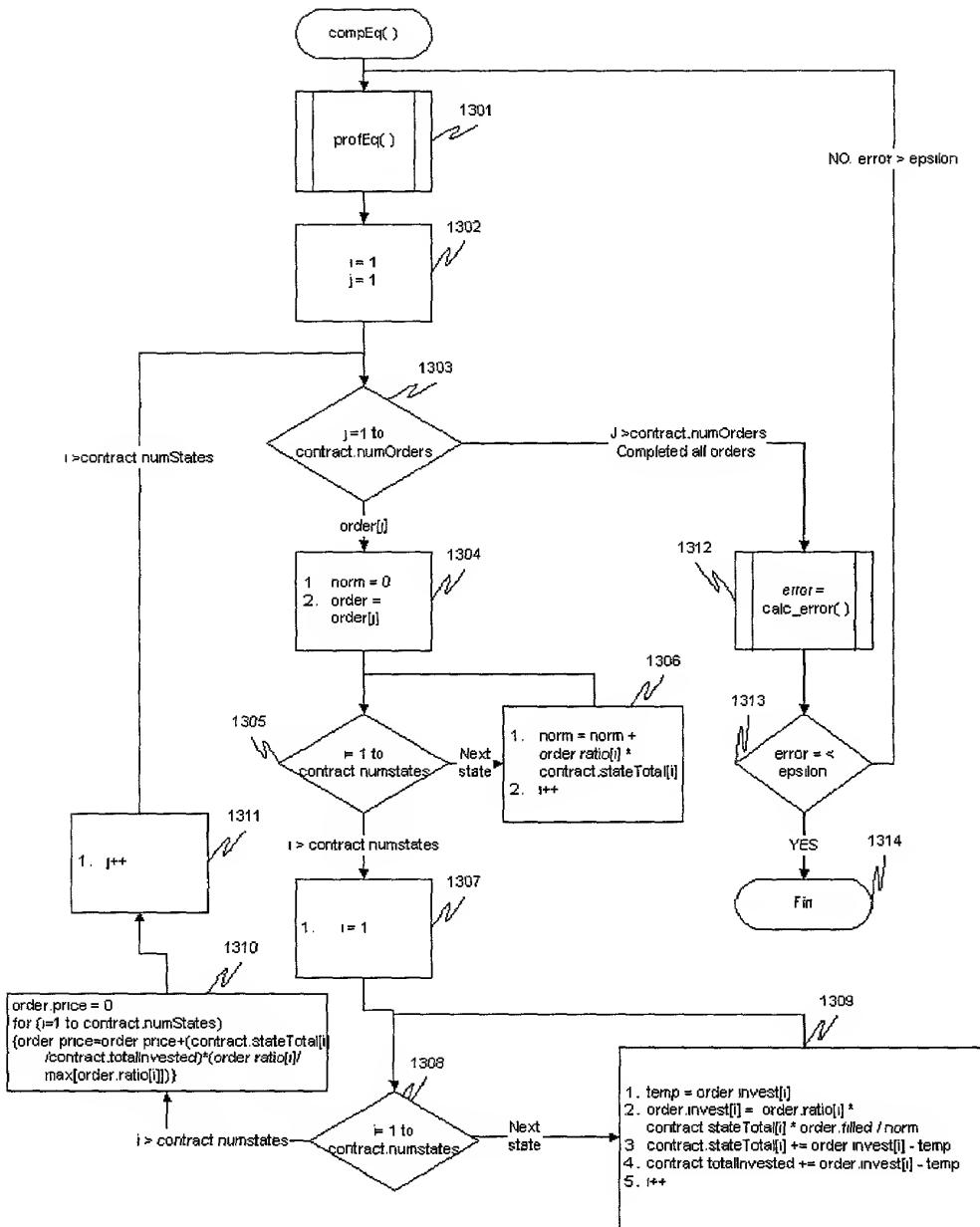


FIG. 14

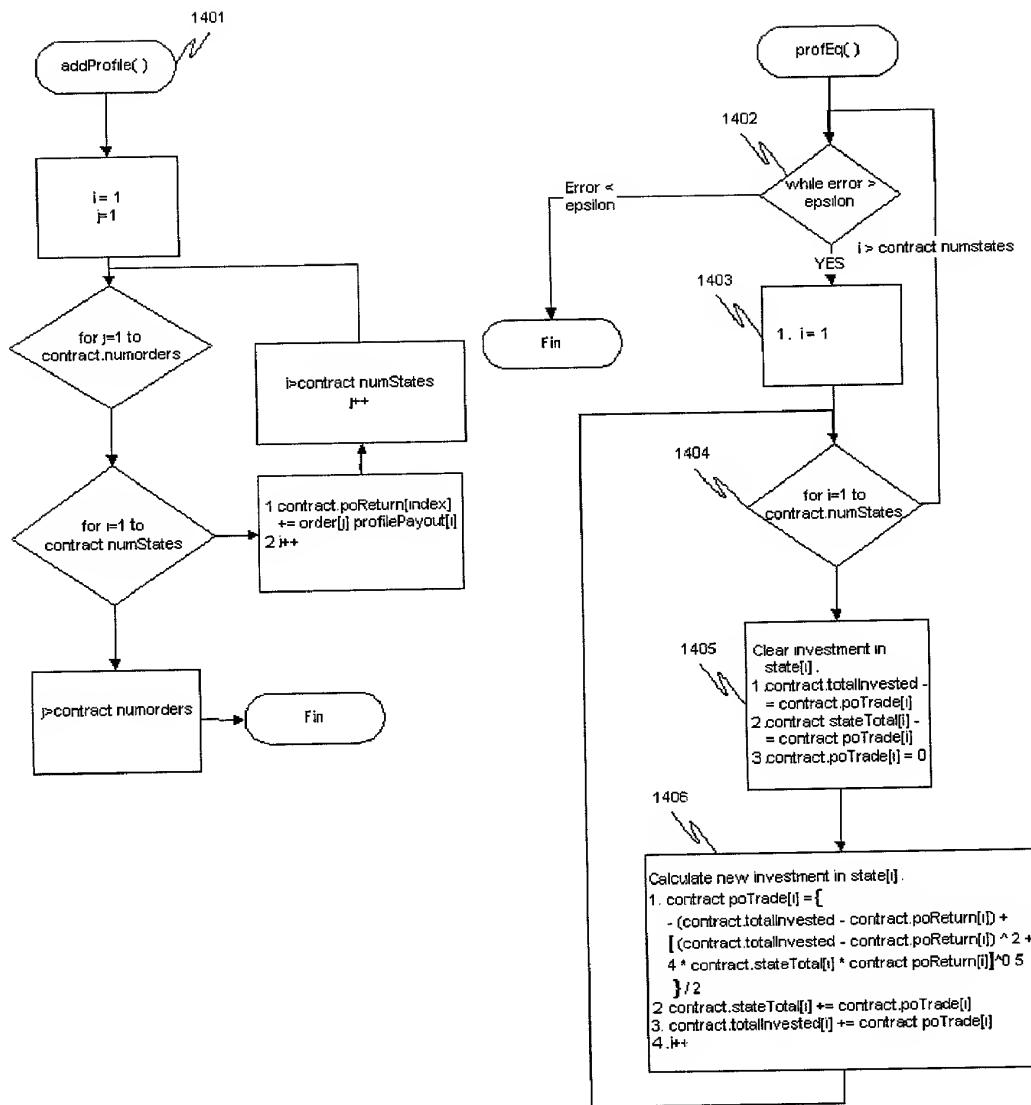


FIG. 15

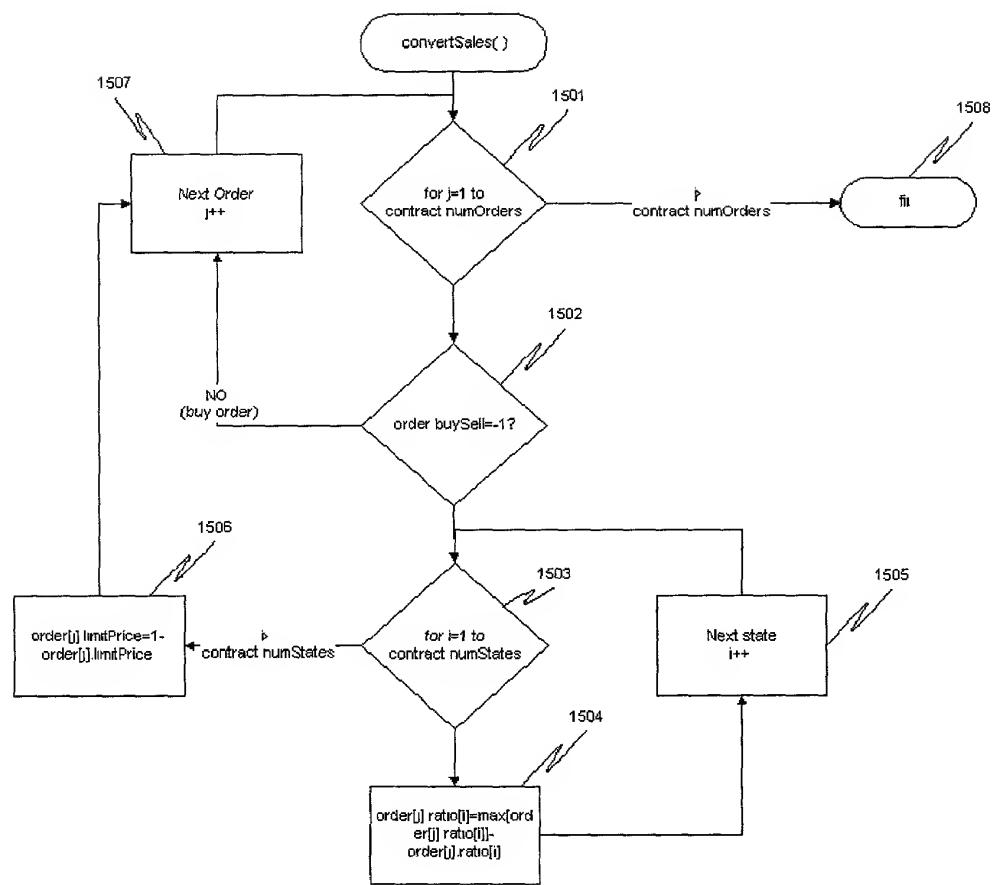


FIG. 16

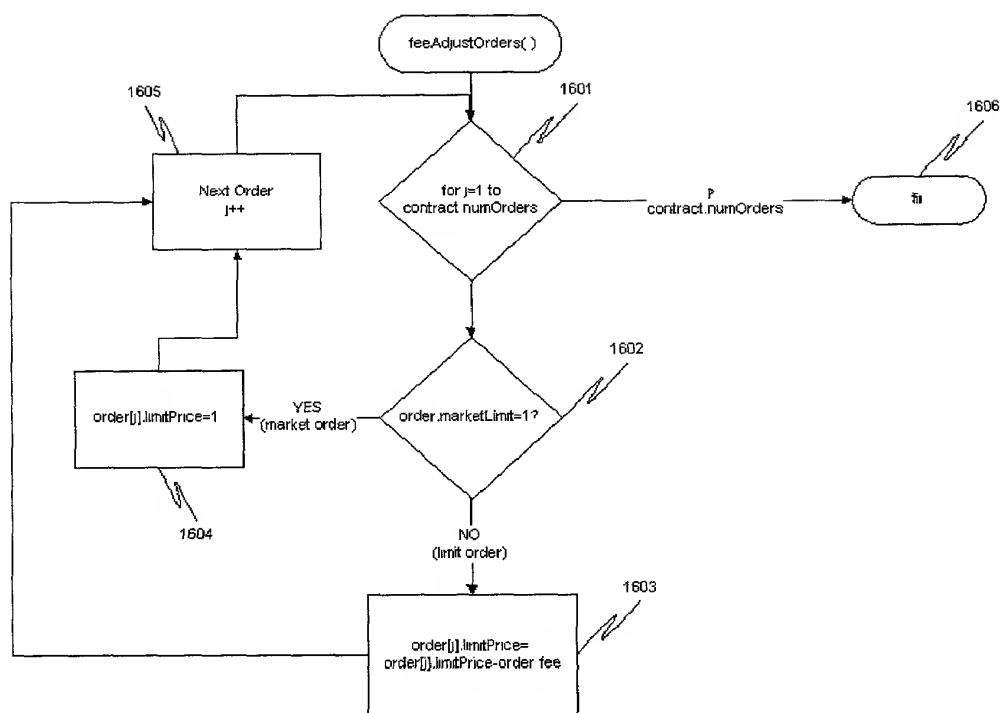


FIG. 17

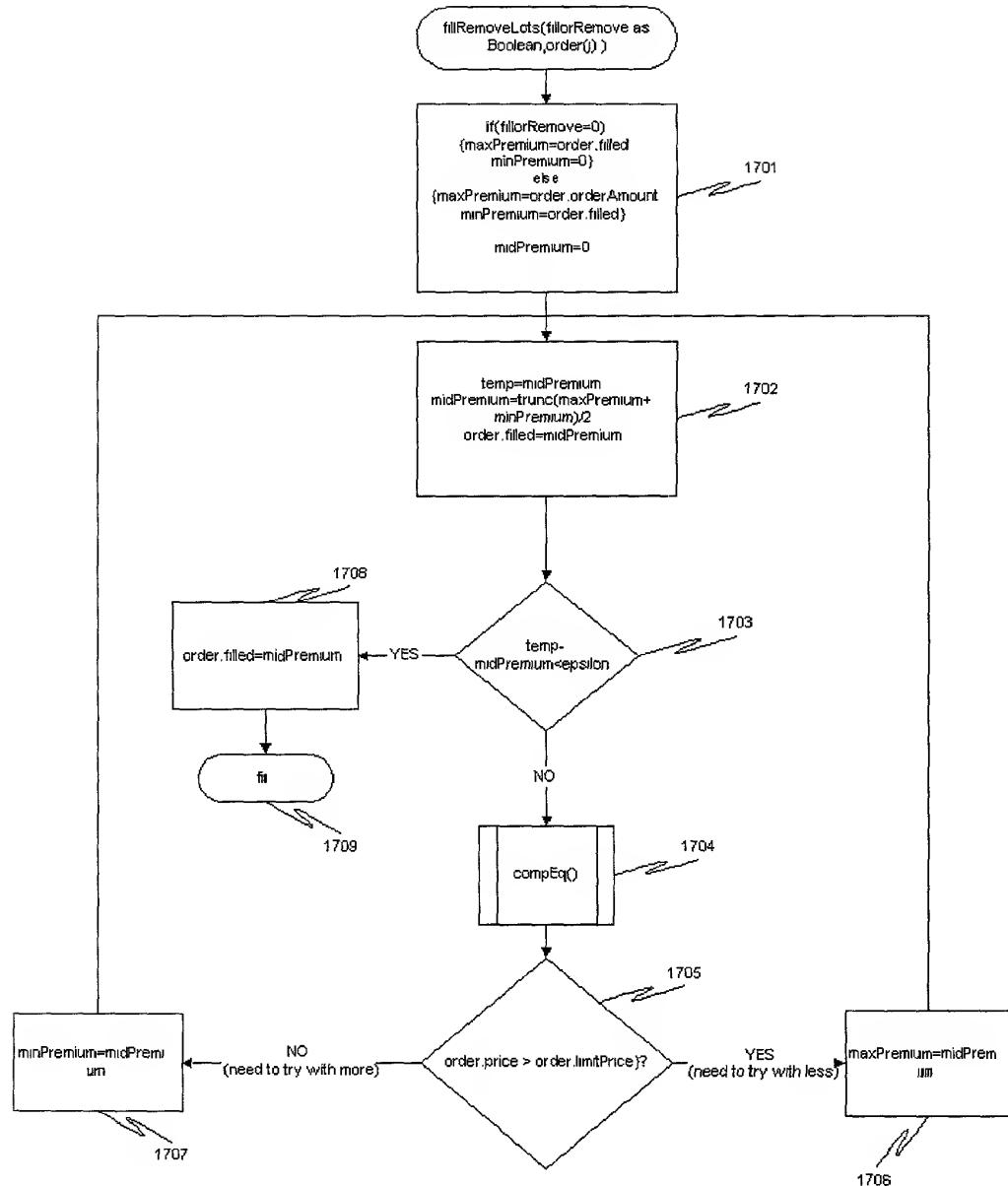


FIG. 18

